EXECUTIVE ORDER U-U-045-0025 New Off-Road Small Spark-Ignition Engines at or Below 19 kilowatts

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapters 1 and 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following engine and emission control systems produced by the manufacturer are certified for use in small off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (cc)	ENGINE		FUEL TYPE			
2005	52PXS.3382HD	PXS.3382HD 338 4-Stro		225 cc and ater	Liquefied Petroleum Gas			
DURABILIT HOURS	Y SPECIAL FEAT	URES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION				
500	Eı	ngine Modification	e Modification		Floor Buffing and Scrubbing Equipment			
ENGINE MODELS (rated powe kilowatt, k	GVX340 (3.8 k	W)						

The following are the hydrocarbon plus oxides of nitrogen (HC+NOx), carbon monoxide (CO), and particulate matter (PM) emission standards (Title 13, California Code of Regulations, (13 CCR) Section 2403(b)), and certification emission levels for this engine family in grams per kilowatt-hour (g/kW-hr). Engines within this family shall have closed crankcases in conformance with Section 90.109 of the "California Exhaust Emission Standards and Test Procedures for 2005 and Later Small Off-Road Engines," adopted September 25, 2003.

Standards and Test Frocedures io			
(-11-187 b-s)	HC+NOx	CO	PM
(g/kW-hr)	12.1	549	N/A
STANDARD	N/A	N/A	N/A
FAMILY EMISSION LEVEL	73	4	N/A
CERTIFICATION LEVEL	<u> </u>		

**BE IT FURTHER RESOLVED**: That for the listed engines, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Section 2404 (emission control labels) and 13 CCR Sections 2405 and 2406 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Quarterly reports of engines produced in this engine family for sale in California shall be submitted to the Executive Officer no later than 45 days after the end of each calendar quarter.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 23<sup>kD</sup> day of June 2005

Allen Lyons, Chief

Mobile Source Operations Division

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Model Year:

2005

Manufacturer: PION

Engine Family: 52PXS.3382HD

PIONEER ECLIPSE

Issued:

Revised: 5/6/2005

E.O. Number: U-u-045-0025

## **Small Off-Road Engine Model Summary Form**

Units for Table: -bhp Kw

	<b>4</b> 7.	48.	<b>4</b> 9.	50.	51.	52.	53.	54.	55.	<b>5</b> 6.
Worst Case?	Model Designation	Sales Code	Displ (cc)	Bore/ Stroke	Ignition Timing	Max Power	Rated Speed (RPM)	Rated Torque	Torque Speed (RPM)	Emiss Control Sys
X	GVX340	50-State	338	82 X 64 mm	N/A	<del>-5.1</del> 3.	¥ 2863	9.32	2863	EM

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